

[Name of Document] ABSTRACT

[Abstract]

[Problem]

5 The object of the present invention is to provide a
pharmaceutical preparation for anti-inflammations, anti-
infections or inhibition of cancer metastasis, foods such
as dairy products, a method of improving proteins, and a
method for diagnosis of diseases such as cancers, by
utilizing a novel polypeptide having β 1,3-
10 galactosyltransferase.

[Means for Solving the Problem]

According to the present invention, there can be
provided a novel polypeptide having β 1,3-
galactosyltransferase activity involved in the synthesis
15 of type 1 sugar chains, a DNA coding for said polypeptide,
a recombinant vector comprising said DNA, a transformant
carrying said recombinant vector, a process for producing
type 1 sugar chain-containing sugar chains and complex
carbohydrates by use of said polypeptide or said
20 transformant, an antibody recognizing said polypeptide, a
method for detecting or quantifying said polypeptide by
use of said antibody, a method for screening a substance
correlated with said polypeptide, a method for diagnosis
or treatment of cancers in the digestive system by use of
25 said DNA or said antibody, and a method for treatment of
cancers in the digestive system by use of a substance
obtained by said screening method.

[Drawing] None